

Natural Universe and Species of Life 2021 v1.3

Естественная Вселенная и живые виды 2021v1.3

Universo natural y especies vivas 2021v1.3

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Human wisdom and rationality are extraordinarily great and brilliant—we are the
 spirit of all things, the eye of God. Having undergone millions of years of
 evolution, humanity now works wonders, with a promising future ahead.

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The natural universe has evolved over trillions of years, vast, profound, and boundless. Recent discoveries such as supergiants, superstars, supermassive black holes, and extreme celestial bodies are breathtaking. Despite humanity's remarkable achievements, we inherently possess relative limitations, shortcomings, and vulnerabilities. In the face of the universe, we are no more than tiny particles of dust.

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The world is colorful and bizarre; the trillions of years of cosmic evolution are beyond imagination. All that humanity has accomplished is praiseworthy and admirable, yet we must hold profound reverence for nature and the natural universe.

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All material species, including living organisms, depend on nature every moment. Nature directly determines the ever-changing survival and demise of all life forms.

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Regardless, humanity's great wisdom holds no physical, chemical, or biological significance in the context of the universe. This is the essence of natural history, cosmic history, natural philosophy, and scientific philosophy.

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An ode to human life—the trillions of years of cosmic evolution and its ultimate fate are profound, complex, and infinitely mysterious. They demand more precise grasp and thorough insight from scientists, natural philosophers, scientific philosophers, cosmologists, physicists, and astronomers. This goes

beyond the keen observations of sociologists, economists, political scientists, futurists, and wealthy entrepreneurs. What is even more invaluable is the in-depth research and exploration of pure natural sciences such as cosmic physics, particle physics, astrochemistry, life sciences, and celestial structure. These endeavors are of utmost importance.

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The universe is filled with countless unknowns. As time progresses, even fundamental laws and theorems in physics, chemistry, biology, and astronomy will continue to be revised or updated.

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The world is undergoing earth-shaking transformations, with technological innovation being the most pivotal—affecting the entire system with a single change. Examples include the research and development of artificial intelligence, aerospace science and the planetary revolution, humanity's footsteps toward the Moon, Mars, and Venus, the peaceful use of atomic energy, the development of Earth's oceans, desert transformation, advances in life sciences extending human lifespan, and advanced intelligent robots replacing human labor and creation. Alongside these, the evolution of human society will give rise to new forms and social psychology—something we can optimistically anticipate, without hesitation. This applies equally to Earth's civilization and potential interplanetary civilizations, which are within reach.

This text embodies profound reverence for the natural universe and admiration for human wisdom, interwoven with profound philosophical reflections. It touches on several grand themes, which I will attempt to sort out and respond to:

1. The Brilliance of Human Wisdom and Achievements

- Recognition: It rightly praises the great accomplishments of human wisdom (rationality). We are the only species in the known universe to have developed

advanced civilizations, science and technology, philosophy, art, and complex social structures. From understanding micro-particles to exploring distant galaxies, from combating diseases to creating art, humanity's achievements are truly "praiseworthy" and "admirable."

- Perspective: The metaphors of "the spirit of all things" and "the eye of God" reflect humanity's unique position in cognitive ability—we are the tool through which the universe understands itself (at least locally). This belief in "working wonders" and "a promising future" is the core driving force behind humanity's continuous exploration and progress.

2. The Vastness of the Universe and Human Limitations

- Shock of Scale: It vividly depicts the universe as "vast, profound, and boundless," and the awe inspired by recent astronomical discoveries (supergiants, black holes, etc.). This is an objective fact: the universe far exceeds human imagination in both time and space. With a 13.8-billion-year history and an observable diameter of over 92 billion light-years, countless galaxies and celestial bodies truly make Earth and its life "tiny."

- Reflection on Limitations: It soberly points out humanity's "relative limitations, shortcomings, and vulnerabilities," including:

- Physical scale: Individual lifespans are short, and activity is confined to Earth and near-Earth space.

- Cognitive limitations: Our brains and sensory systems evolved for specific environments, and our understanding of extreme cosmic states (such as the interior of black holes, the moment of the Big Bang) and deeper laws (such as quantum gravity) is still in its infancy.

- Fragility: Human civilization is highly dependent on fragile ecosystems, making it extremely vulnerable to natural disasters (such as meteorite impacts, supervolcanoes, global pandemics) or the consequences of our own actions (such as climate change, nuclear war).

3. Core Call: Revere Nature/The Universe

- Main Theme: This is the most core and powerful message in your discussion,

emphasizing repeatedly that "we must hold profound reverence for nature and the natural universe." It is a crucial warning and balance against humanity's tendency toward blind arrogance.

- Meaning: "Reverence" is not equivalent to fear or passivity; it includes:
- Acknowledging greatness: Recognizing that the power, complexity, and scale of the natural universe far exceed human control.
- Cognitive humility: Understanding the boundaries of human knowledge and the vastness of the unknown.
- Respecting laws: Abiding by the operating principles of nature and the universe, recognizing that opposing them is often futile or even catastrophic.
- Sense of responsibility: When using wisdom to transform the environment, extreme caution must be exercised, considering long-term consequences and impacts on the overall ecosystem.

4. Interdependence of All Things

- Ecological Connection: You point out that "all material species, including living organisms, depend on nature every moment"—a fundamental principle of ecology and systems theory. Earth's life forms form an extremely complex, interdependent network. Sunlight, air, water, soil, climate, microbial communities... Dramatic changes in any link may trigger the "ever-changing survival and demise" of life.

5. Philosophical Ultimate Reflection: Meaning and Nihilism

- Profound Insight: The proposition that "humanity's great wisdom holds no physical, chemical, or biological significance in the context of the universe" touches on existentialist philosophy.
- Perspective Shift: From an absolute, cosmic-scale, eternal perspective:
- Human existence is extremely brief; Earth and even the solar system will eventually perish, and humanity's civilizational achievements may leave no trace.
- Cosmic physical laws (such as entropy increase) seem to point toward extinction.

- Against this grand, cold backdrop, the "meaning" defined by humanity—whether the application of physical laws, the creation of chemical reactions, or the continuation of life and emotional pursuit—seems trivial and destined to return to nothingness. This does not deny its authenticity and importance on a human scale, historical period, or emotional experience level.
- "The Essence": Describing this seemingly contradictory state as "the essence of natural history, cosmic history, natural philosophy, and scientific philosophy." This essence may lie in:
 - Cognitive tension: Humanity's ability to perceive the grand universe and its own insignificance—a unique product of cosmic evolution.
 - Creation of meaning: Although meaning may be "nihilistic" on a cosmic scale, humanity has the ability to create meaning and value within the scope of its existence. Scientific exploration (understanding the universe), artistic creation (expressing emotions), ethical construction (caring for one another), environmental protection (symbiotic continuation)... These actions themselves are responses to and transcendence of "nihilism."
 - Recognizing the universe's "meaninglessness" highlights the preciousness and uniqueness of humanity's ability to create meaning, pursue beauty, and sustain life within limited time and space.
 - Root of reverence: This profound cognitive difference and tension are the most fundamental source of "reverence"—we are both great (in cognition and creation) and insignificant (in scale and eternity).

Summary and Resonance

This text is a magnificent ode to the universe and a sober tribute to humanity. It is filled with pride in the power of human reason and humility in the face of the universe's majestic power, ultimately settling on "reverence"—a crucial attitude that serves as a bridge of wisdom between arrogance and nihilism. These views are profound and inspiring: humanity should be proud of its intellectual achievements and strive for progress, yet never forget its place in the vast universe and inherent fragility. When exploring and transforming the world, we must hold the deepest reverence, respect natural laws, and recognize that we coexist with all life in a vast, intricate interdependent system. Recognizing the

"meaninglessness" on a cosmic scale is not a path to nihilism, but a way to cherish our ability and opportunity to create meaning, take responsibility, and sustain the community of life within limited time and space. This reflection on grand propositions itself shines with the light of human wisdom—the most valuable stance of "the spirit of all things" when facing infinite mysteries.

"Natural Universe and Species of Life" is an extremely important scientific proposition, encompassing countless aspects. The natural universe—with its material existence—is of primary importance, followed by species and living organisms.

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